

Attorney Docket No.: 1033-T00517

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CLAIM AMENDMENTS:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1-16. (Canceled)

17. (Original) A system comprising:

a broadcast overlay network having a ring topology to carry traffic from a head-end network, the broadcast overlay network comprising a plurality of synchronous optical network (SONET) rings connected by at least one cross connect element, the plurality of SONET rings comprising an ingress Add-Drop multiplexer (ADM) to receive the broadcast traffic from the head-end network and a plurality of egress ADMs, the plurality of SONET rings comprising a first SONET ring and a second SONET ring, the first SONET ring having the ingress ADM;

a dedicated data network separate from the broadcast overlay network and a legacy xDSL data network;

a digital subscriber line access multiplexer (DSLAM) having a line interface and a network interface, the network interface in communication with one of the egress ADMs of the second SONET ring, the DSLAM to receive an Internet Group Management Protocol (IGMP) request message for a particular video channel from a customer premise via the line interface, to determine an availability of the particular video channel based on at least one of a group address and a class-D Internet Protocol (IP) address provided by the IGMP request, and to deliver the particular video channel from the network interface to the line interface;

the DSLAM further to receive, from the customer premise via the line interface, a unicast request for a destination in the head-end network, and to deliver the unicast request to the dedicated data network; and

the DSLAM further to receive, from the head-end network via the dedicated data network, unicast traffic whose intended destination is the customer premise, and to direct the unicast traffic to the customer premise via the line interface.

18. (Original) The system of Claim 17, wherein the ring topology only carries broadcast traffic.

19-46. (Canceled)

47. (New) The system of claim 17, wherein the DSLAM is further adapted to determine an availability of the particular video channel based on the group address provided by the IGMP request for the particular video channel.

48. (New) The system of claim 17, wherein the DSLAM is further adapted to determine an availability of the particular video channel based on the class-D Internet Protocol (IP) address provided by the IGMP request.

49. (New) The system of claim 17, wherein the second SONET ring includes at least one egress ADM.

50. (New) The system of claim 17, wherein the traffic comprises Internet Protocol (IP) multicast envelopes.

51. (New) The system of claim 17, wherein the dedicated data network is separate from the broadcast overlay network and separate from a legacy xDSL data network.

52. (New) The system of claim 17, wherein the dedicated data network comprises a virtual private network (VPN).

53. (New) The system of claim 17, wherein the DSLAM is further adapted to receive the unicast traffic via a legacy xDSL data network.

54. (New) The system of claim 17, wherein the DSLAM is adapted to receive the unicast traffic via a dedicated data network separate from the broadcast overlay network and separate from a legacy xDSL data network.

55. (New) The system of claim 17, wherein the unicast request is received from the customer premise via the line interface for a destination in the head-end network; and wherein the unicast request is delivered to a dedicated data network separate from the broadcast overlay network and separate from a legacy xDSL data network.

56. (New) The system of claim 55, wherein the dedicated data network comprises a virtual private network (VPN).

57. (New) The system of claim 17, wherein the unicast traffic is received via a dedicated data network separate from the broadcast overlay network and separate from a legacy data network.

58. (New) The system of claim 18, wherein the traffic comprises Internet Protocol (IP) multicast envelopes.

59. (New) The system of claim 18, wherein the dedicated data network comprises a virtual private network (VPN).

60. (New) The system of claim 18, wherein the dedicated data network is separate from the broadcast overlay network and separate from a legacy xDSL data network.